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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/528,682

DATE: 05/31/2002

TIME: 12:13:19

ENTERED

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Output Set: N:\CRF3\05312002\I528682.raw

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3 <110> APPLICANT: Pizza, Mariagrazia
         Giuliani, Marzia M
         Rappuoli, Rino
 7 <120> TITLE OF INVENTION: IMMUNOGENIC DETOXIFIED MUTANT E. COLI LT-A-TOXIN
 9 <130> FILE REFERENCE: 2302-0342.10
11 <140> CURRENT APPLICATION NUMBER: 09/528,682
12 <141> CURRENT FILING DATE: 2000-03-20
14 <150> PRIOR APPLICATION NUMBER: PCT/IB97/01440
15 <151> PRIOR FILING DATE: 1997-10-30
17 <150> PRIOR APPLICATION NUMBER: 09/297,171
18 <151> PRIOR FILING DATE: 1999-04-27
20 <160> NUMBER OF SEQ ID NOS: 4
22 <170> SOFTWARE: PatentIn Ver. 2.0
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25 <211> LENGTH: 240
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33 Lys Arg Ser Gly Gly Leu Met Pro Arg Gly His Asn Glu Tyr Phe Asp
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36 Arg Gly Thr Gln Met Asn Ile Asn Leu Tyr Asp His Ala Arg Gly Thr
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39 Gln Thr Gly Phe Val Arg Tyr Asp Asp Gly Tyr Val Ser Thr Ser Leu
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42 Ser Leu Arg Ser Ala His Leu Ala Gly Gln Ser Ile Leu Ser Gly Tyr
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45 Ser Thr Tyr Tyr Ile Tyr Val Ile Ala Thr Ala Pro Asn Met Phe Asn
48 Val Asn Asp Val Leu Gly Val Tyr Ser Pro His Pro Tyr Glu Gln Glu
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                                   105
51 Val Ser Ala Leu Gly Gly Ile Pro Tyr Ser Gln Ile Tyr Gly Trp Tyr
                               120
                                                   125
54 Arg Val Asn Phe Gly Val Ile Asp Glu Arg Leu His Arg Asn Arg Glu
                           135
57 Tyr Arg Asp Arg Tyr Tyr Arg Asn Leu Asn Ile Ala Pro Ala Glu Asp
                       150
                                           155
60 Gly Tyr Arg Leu Ala Gly Phe Pro Pro Asp His Gln Ala Trp Arg Glu
                   165
                                       170
63 Glu Pro Trp Ile His His Ala Pro Gln Gly Cys Gly Asn Ser Ser Arg
                                   185
66 Thr Ile Thr Gly Asp Thr Cys Asn Glu Glu Thr Gln Asn Leu Ser Thr
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VERIFICATION SUMMARY

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